

What is claimed is:

1. A bump ball crimping apparatus comprising an alignment tool for aligning a plurality of bump balls; a sample table disposed below said alignment tool for mounting the plate-shaped samples on which said bump balls are to be crimped; a crimping mechanism disposed above said alignment tool for crimping said bump balls to said plate-shaped samples; and a first moving mechanism disposed below said alignment tool and said sample table that can move said alignment tool in two mutually perpendicular directions on a plane, and can fasten it at a predetermined position,  
10 wherein:  
a second moving mechanism that supports said sample table such that it can move in at least one direction over the plane parallel to said two directions, and can be fastened at a predetermined position.
- 15 2. A bump ball crimping apparatus according to claim 1, wherein said second moving mechanism supports said sample table such that it can move at least in one of said two directions and can be fastened at a predetermined position.
- 20 3. A bump ball crimping apparatus according to claim 1, wherein said second moving mechanism is fastened on said first moving mechanism.
4. A bump ball crimping apparatus according to claim 2, wherein said second moving mechanism is fastened on said first moving mechanism.

5. A bump ball crimping apparatus according to claim 1, comprising a supply device for supplying said bump balls to said alignment tool.

6. A bump ball crimping apparatus according to claim 4, comprising a supply device  
5 for supplying said bump balls to said alignment tool.

7. A bump ball crimping apparatus according to claim 1, comprising a detecting device for detecting that the plurality of said bump balls is aligned on said alignment tool.

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8. A bump ball crimping apparatus according to claim 6, comprising a detecting device for detecting that the plurality of said bump balls is aligned on said alignment tool.

15 9. A bump ball crimping apparatus according to claim 1, comprising an alignment tool replacing device that automatically replaces said alignment tool.

10. A bump ball crimping apparatus according to claim 8, comprising an alignment tool replacing device that automatically replaces said alignment tool.

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11. A bump ball crimping apparatus according to claim 1, wherein said second moving mechanism moves said sample table between a position overlapping the alignment tool from a horizontal view and a position that does not overlap said alignment tool from a horizontal view.

12. A bump ball crimping apparatus according to claim 10, wherein said second moving mechanism moves said sample table between a position overlapping the alignment tool from a horizontal view and a position that does not overlap said alignment tool from a horizontal view.  
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13. A bump ball crimping apparatus according to claim 2, wherein the length of the range of movement of said second moving mechanism is made smaller than the length of the range of movement of said first moving mechanism in the same direction as said  
10 second moving mechanism.
14. A bump ball crimping apparatus according to claim 12, wherein the length of the range of movement of said second moving mechanism is made smaller than the length of the range of movement of said first moving mechanism in the same direction as said  
15 second moving mechanism.